

DES moves to close Ulster grant loophole

by Ngalo Crequer
Proposals to exclude Northern Ireland teacher training candidates from applying for grants in England and Wales are being urgently considered by the Department of Education and Science.

At the same time local authorities on the mainland are waiting for confirmation from the DES that they are right to interpret that current regulations allow the award of such grants.

The discovery of a loophole in the rules, allowing students to circumvent the official policy of restricting the number of places for Northern Ireland students, has embarrassed the DES and confused local authorities.

In the autumn of 1977 Lord Melchett, Northern Ireland Minister of State, with responsibility for education, announced that from 1978 awards from Great Britain would only be available for courses not available in Northern Ireland, or for which the province had a special need.

In January of this year, however, a loophole in the regulations was discovered. The regulations state that a student admitted to a designated course is eligible for a mandatory award if he or she has lived in the United Kingdom for the three years preceding the academic year in which the course begins.

Thereafter an Ulster-domiciled student who has lived in the United Kingdom for three years gains a first degree award from a mainland local authority, even if the Northern Ireland Department of Education is not prepared to provide one.

The loophole is being treated as a drafting error but nevertheless its discovery has raised uncertainty in the minds of local authorities and students alike. The DES is anxious to amend the regulations and the target date is January 1979. A spokeswoman at the DES said this week that an announcement on the change is imminent.

The discovery of the loophole has caused a rush of inquiries by students at Queen's University, Belfast. Competition for graduate teacher training places is very tough. There were 715 applications for 90 places at the university for October 1978 graduate teacher training entry. There were only 10 places available in the whole of the province.

Mr Norman Lloyd, senior careers adviser at the University College of Wales, Aberystwyth, who discovered the loophole, says that if it is closed there will be gross discrimination against some intending teachers from Northern Ireland.

The Department of Northern Ireland is taking a very narrow view. It means that Ulster-domiciled students, who take their degree in England and Wales, and who wish to teach over here will not be able to do so because of the limitation of awards in the province.

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MP wants London payment inquiry

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One of the changes is that for the first time the university will have a full-time salaried vice-chancellor, appointed for a four-year term, instead of, as now, a part-time vice-chancellor appointed for one year.

Inquiries reveal that the conflict stemmed from the question of where his, the principal's, authority ended and the vice-chancellor's began under the new statutes.

It is believed that Dr Willson did not want to be just a part-time salaried secretary to a full-time salaried vice-chancellor. He wanted to be in decision-making concerning the whole of the university, but rather a strict responsibility for the administration at the centre.

He feared that in more general role would only lead to being left in conflict with the full-time vice-chancellor and the university senate.

Dr Willson wanted to be a local manager with a defined administrative role rather than just another top manager in a sprawling federal university.

Formerly he may have resigned because he wanted to limit the functions of his job rather than seek

more power over a wider field, with ambiguous status. It is understood there was a suggestion that the title "principal" be dropped because of the image it conjured up.

It was an open secret at the time that the conflict has been smouldering for about a year. There had been some tension about the new proposals between members of the senate and the principal.

In July, 1977, the committee which appointed the principal was recommended to try to resolve the differences of view on the principal's role. It was referred to the joint standing committee of the senate and college councils in February and March of this year.

But it could still not be resolved and the resignation was accepted at the court meeting of June 7, "on terms agreeable to the court", and signed in its next meeting.

Since then figures of between £20,000 and £30,000 have been quoted, unofficially, as the "acceptable terms".

Both the vice-chancellor, Sir Frank Hartley, and Dr Willson have refused to comment.

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DES determined to push ahead with Oakes Bill in autumn

by Peter Scott

The Government is likely to introduce a higher education Bill later this session of Parliament if Labour wins the expected general election.

The Bill would allow the major recommendations made in the Oakes committee report to be implemented. It might also give the Secretary of State new powers to increase the number of courses for which students would be eligible for mandatory grants.

Ministers at the Department of Education and Science have still not taken a final decision on introducing such a Bill. The alternative is to present a much more comprehensive education Bill covering matters concerned with schools as well. A final decision will probably be made in late July or August.

However, they are likely to choose a short, sharp Bill confined to higher education for three reasons. First, there is all the machinery already in place to introduce a Bill of this kind. Second, they fear that a large and cumbersome Bill might be subjected to by the Gov-

ernment's Parliamentary managers. However, the most important reason is that there are still deep divisions of opinion within the Government and the Labour Party on some of the subjects that would have to be included in a larger Bill, such as student choice and the Taylor report on school governance.

But Mr Oakes, the Minister of State at the DES, is believed to feel that his own report is much less controversial. He has recently met both the Parliamentary Labour Party's education committee and the education subcommittee of the new NEC. On both occasions he has given a much easier ride by potential critics within the party than he expected.

However, the recommendation that the proposed national body should take over the powers of the local authorities has provided an adequate opportunity for consultation.

Although the DES has not yet received all the comments on its discussion document, there is already disappointment that so few organizations have considered possible solutions to the short-term "bulge" in student numbers in the early 1980s.

Mr Oakes is expected to publish a White Paper sometime next year on the future of higher education, rather later than Mr Oakes hinted in a recent speech. A Green Paper is very unlikely because both ministers and officials feel that the discussion document *Higher Education* has provided an adequate opportunity for consultation.

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Association of Metropolitan Authorities. Ministers are believed to favour pushing ahead as quickly as possible with the legislation.

There are also fairly firm plans to establish a shadow national body this autumn much earlier than expected. A shadow chairman, who would be full-time, would be appointed at the same time. The proper national body, with a very similar membership to that of the shadow body, could start work as early as autumn next year.

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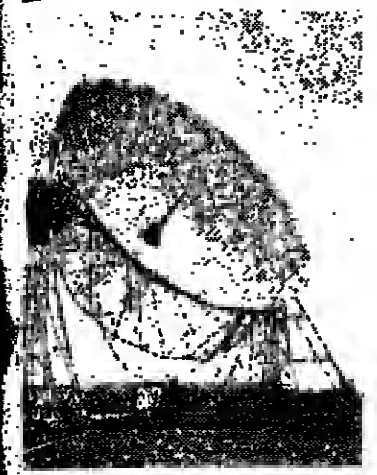
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The Science Research Council has given £3.1m to Jodrell Bank to build two new radio telescopes which will be linked to existing equipment there, including the 250ft dish receiver there. The system, operated by computer, will be used for fine resolution studies of quasars and radio galaxies.

Colleges seek greater say on policy

by John O'Leary

The colleges of higher education are making a double bid for greater influence on national education policy. They want one voice to speak for the maintained sector of higher education on appropriate issues and have asked for representation on the national body proposed in the Oakes Report.

One meeting has already taken place between the college principals and the Committee of Directors of Polytechnics and another is planned for September. Although there is no question of a merger between the CDP and the Standing Conference of Principals, and therefore, there are hopes of a liaison committee.

Mr Neil Merrin, principal of Falmouth College and secretary of the Standing Conference, said both bodies recognized that there were significant differences in the nature of their institutions, which would inevitably present problems for a jointly united approach.

However, he said: "There seems to be general recognition that a number of problems can be examined jointly. Several bodies have been made at the initial meetings and the CDP is anxious to co-operate with the Standing Conference in a wide range of formal discussions with a view to exchanging views on this established basis."

Regardless of the success of the bid, the college principals make it clear in their Oakes Report submission to Mrs Williams, Secretary of State for Education, that they are determined not to be left out of any new arrangements for the maintained sector.

The Standing Conference welcomed the report's proposals in general terms and strongly supports the principle of a balance of institutions, membership, reflecting student numbers, on the national body. To allow the voice of all types of institutions to be heard, the principals suggest that nominations should be sought from the Standing Conference as well as the CDP.

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On-job training emphasized by Finniston after foreign trip

by Robin McKie
Science Correspondent

An engineering degree is not a sufficient qualification for a graduate working in industry and there must be greater emphasis on on-the-job training, says the new chairman of the Finniston committee which is presently inquiring into the state of manufacturing industries in this country and follows recent trips to the United States, Japan and Canada by committee members.

There is some strong debate in the committee over the value of the recently-produced enriched four-year engineering degrees and over the merits of establishing an accreditation system, similar to the United States method of certifying courses to test their academic standards.

But committee members rejected

report this week that an decision had been made on the question of the registration and licensing of engineers. A subcommittee under Lord Will Hume is presently considering this issue and is not expected to report back until later this year.

The Finniston enquiry is expected to propose ways in which practising engineers can update their knowledge continuously to allow industry to keep abreast of modern technological developments. It is understood the members were particularly impressed by a system that has just been introduced in Iowa where engineers must give evidence of continuing updated skills to ensure continuing registration.

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AMA thumbs down to Oakes proposals

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report and leave it to the association's policy committee, which has traditionally been more hostile to the Oakes recommendations, to decide its attitude in July.

Should the policy committee reject the report, the Government will have to decide whether to press ahead with its proposals against the wishes of both the AMA and the Committee of Directors of Polytechnics.

A key factor will be the minority of Labour-controlled authorities in favour of the report and a three-way split in Conservative attitudes. The Conservative-controlled Association of County Councils has accepted the report, largely because of inter-authority recruitment payments favoured by its members.

The metropolitan councils are likely to result in a net loss of money by the three counties, where there are fewer polytechnics.

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Technical book publishers warned to curb prices

The publishers of technical books have been warned by the Price Commission to hold back price increases for the next few years. In a report on the publishing and distribution of books, the commission said that the price of technical books has risen by an average of 11 per cent in the last seven years, compared with 8 per cent for all books.

The sale of these books, which are used by students and professionals, has been hit by the rise in prices. The commission said that the price of technical books has risen by an average of 11 per cent in the last seven years, compared with 8 per cent for all books.

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APT breakthrough in Lanchester acceptance

with the other interested parties.

An APT spokesman said the association hoped this decision would have the immediate effect of persuading the Hampshire education authority to undertake a similar review, since its membership was relatively small.

Further encouragement for the APT's quest for recognition in a number of centres came with this week's High Court ruling which overturned a decision by the Advisory Conciliation and Arbitration Service. In a claim regarded by the APT as a parallel case, ACAS had refused to recommend that the

In a judgment which is expected to have implications in a number of inter-union disputes, Mr Justice May said ACAS had an obligation to

encourage the extension of collective bargaining, as well as simply to promote good industrial relations. There was an increasing desire among employees to join trade unions whose aspirations, negotiation procedures and political outlook were markedly different to those of the more traditional trade unions affiliated to the TUC.

Research body calls for study of key issues for 1990s

Twenty-one issues for an independent commission to investigate as part of a study into the pattern of higher education in the 1990s have been outlined by the Society for Research into Higher Education.

of Education and Science consultative document "Higher Education into the 1990s", its society com-

ments: "Needless to say we have not found the document, as it stands, provides by any means all the evidence necessary to arrive at well-based answers to the questions set out in its last paragraph. The com-

The response adds: "We need a more intimate knowledge than anybody at present possesses about the nature of the teaching process in higher education, and the nature of the learning process in higher education. We need to know more about the nature of the subject areas, and the possible needs for new types of institutions in higher education, and the relative degree of function of these different types of institutions."

"The most important outcome of our study of the issues raised by this document is a strong conviction that a new and enlightening enquiry into the future of higher education in Britain is desirable.

In our view neither the necessary numerical projections nor any clear-cut self-contained policy options can adequately be discussed without a probing consideration of larger ques-

Spastic claims discrimination

the university library. In considering the Trinity building has a lift, its rooms are large and the corridors wide.

But he was turned down by Trinity, and then subsequently by his other choices. He claims that the refusal was because Trinity

of Cambridge Board of Graduate Studies as a research student in the social and political sciences department. This is separate from admission to a particular college.

Following the usual procedure he applied for admission to four col-

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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent the standard deviation.

Real need for change to 'continuing' system

by Muggie Richards

An urgent need for a transition from the present higher education system to a pattern of recurrent education is highlighted by the Advisory Council for Adult and Continuing Education in its reply to the Department of Education and Science's consultative document "Higher Education into the 1990s".

According to the council the fundamental issue is replacing the present model—based on initial entry and full-time tuition—by continuing education available to all who are able to benefit by virtue of ability, experience, motivation, and regardless of age.

It goes on to emphasize the importance of reviewing the further education system and the impact of a continuing education policy on it and to strongly reiterate the claim that a more flexible higher education system will lead to a lowering of standards.

Urging a modification to the Robbins principle, the council says it has long been the experience of adult residential colleges, university extra-mural departments, poly-

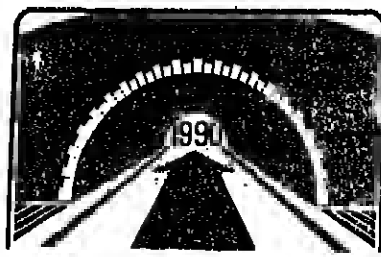
technics, the Workers' Educational Association and the Open University that there are substantial numbers of adults lacking formal qualifications who have the capacity to benefit from higher education.

The Robbins principle should be altered to accommodate those qualified by ability, motivation and experience, taking into account records of achievement in employment and public service, and in part-time adult education.

It advocates a phased transition from the present system, and points out that higher education institutions will need to reorientate their courses to meet the requirements of mature students.

Continuing essential requirements of a new system, the council says, a prerequisite will be the establishment of an effective system of information and publicity to make known the facilities available at all levels. It recommends a careful study of guidance services provided both in Britain and abroad.

Other necessary features include a new system of student awards and support costs linked to paid and unpaid educational leave; collaboration



on developments in distance learning techniques and educational technology; and consideration of geographical accessibility.

The council also pinpoints the need for retaining programmes to equip academics to teach mature students. University extra-mural and adult education departments will have a vital role to play in this area, it predicts.

On the question of deferred entry to higher education, it cautions that this should be part of a coherent continuing education policy, and not used merely as a means of easing pressure until 1984. Similarly, it suggests short or part-time courses should be an integral part of a continuing education structure, and not designed as a cheap alternative for younger students.

The council also recommends the establishment of a national system of credit transfer and welcomes the efforts being made in this direction.

Short courses offered as solution

Enormous scope for encouraging students to embark on shorter full-time or part-time courses is envisaged by Goldsmiths' College in its response to the discussion document.

Accepting that such courses should not be prejudicial to the length and availability of conventional first degrees, the college anticipates there will be tremendous potential for the development of short full-time and part-time courses if the current programmes are offered and there is support from government, industry, local authorities and employers.

In welcoming the DES document, Goldsmiths' says it is a particularly relevant institution from which to study the pattern of higher education for the 1990s.

"It already embraces and embodies a range of work: research and advanced courses and first degrees for full-time and part-time students; adult and continuing education, professional, vocational, and non-vocational. From our own experience, therefore, the college has no reservations or hesitation in saying Model E is the appropriate paradigm."

The Robbins principle should continue to guide the provision of higher education, but with alterations to allow the admission of other categories, it recommends.

The response also urges a prompt start on planning for provision in the 1990s. "Social justice requires the implementation of certain measures before the end of the 1980s—while the bubble is still comfortably (or unconsciously) occupying higher education accommodation."

On the question of a decision between the roles of the universities and other higher education institutions, the college is adamant that this must not happen. "The unity of education is an aim, not a shibboleth," the response says.

Closer part and full-time links proposed

Closer links between full and part-time courses, easier transfer between institutions and opportunities for shorter periods of self-paced study are called for by the Standing Conference of Principals and Directors of Colleges and Institutes in Higher Education.

In its response to the Department of Education and Science's discussion paper the standing conference says that the need in a skill-based economy for highly trained and flexible manpower demands improved opportunities for recurrent training with generous financial support.

The standing conference points out that higher education also includes the vast area of postgraduate education, which is further or non-advanced. This will also be hit by the tidal wave of births, although there will be longer time lags.

The conference challenges the DES view that there is a high degree of unsatisfied demand in vocational part-time education.

Instead, "if the new approach is to be a change in career development, then the need for provision in part-time higher education is likely to increase sharply."

The conference emphasizes that one of the major influences on higher education is government policy and where it makes more available.

Government could do more to encourage men and women managers in equal proportions to give more support to 16 to 19-year-olds who want to stay on at school. It must also realize that the problem of access is vital for part-time students, as they have neither the money nor time to spend travelling to and from classes.

"Participation on a broader social basis will also be encouraged," the report says.

North American News

Clive Cookson reports from Washington on a legal landmark over the right to discriminate

Affirmative programmes may go on

An overwhelming majority of affirmative action programmes in higher education seem likely to survive the impact of the Supreme Court's decision in the historic Bakke case.

The nine justices of the United States' highest court were split 5-4 over the "special admissions programme" at the University of California's Davis Medical School, which reserved 16 out of 100 places for "disadvantaged" minority applicants, was unconstitutional and legal because "the purpose of overcoming substantial, past minority under-representation in the medical profession is sufficiently important to justify... remedial use of race".



Allan Bakke: admission ordered

Another four, including Chief Justice Warren Burger, held that the medical school clearly contravened Title VI of the 1964 Civil Rights Act, which forbids racial discrimination by institutions receiving federal funding, by twice rejecting Allan Bakke, a white engineer, in favour of less qualified minority students.

Therefore, this group said, there was no need to consider the proper

questions of whether race can be a factor in admissions policy, or whether the Davis procedure contravened the "equal protection clause" of the United States Constitution (whose wording is much less precise than the 1964 Act).

The crucial ninth justice, Lewis Powell, decided that the medical school acted unconstitutionally by creating a closed category from which Allan Bakke was excluded because of his race.

So, by a five to four majority, the court ordered the University of California to admit Mr Bakke to Davis next term.

But Justice Powell also held that universities could take race into account in admissions decisions, if they avoided the rigid quota system used by Davis. A majority of five ruled that the University of California, and, by extension, other educational institutions, may continue race-based affirmative action programmes.

The narrowness of the judgments and the complexity of the written opinions issued by six of the nine justices ensured both satisfaction and disappointment for the thousands of organizations and institutions with an intense interest in the case.

Bakke had been heralded as the most momentous civil rights case since the Supreme Court's 1954 Brown school desegregation ruling. But the confusion caused by the justices' split will ensure that more litigation before the legal and constitutional limits of affirmative action are defined. The party has only just begun for American civil rights lawyers.

As Yale law professor and former Solicitor General Robert Bork commented: "This isn't a landmark decision. It doesn't tell us how much race counts. We're told that we can count race somewhat, but not too much. That's going to be difficult to apply."

Last week's Supreme Court ruling on the Allan Bakke case has been heralded as the most momentous event in the United States civil rights movement for two decades.

But, in general, both the higher education community and the American civil rights and black leadership were relieved by the Bakke decision. Many had feared a much more sweeping ruling against affirmative action programmes designed to give preference to racial minorities—and would not make up for past prejudices.

They were worried because Davis, with its history of past discrimination and an apparent quota of 16 medical school places for minorities, seemed a very unrepresentative case for affirmative action in the Supreme Court, and they would have preferred to see a more flexible system on trial.

Attorney General Griffin Bell thought the ruling of the Supreme Court's opinions was in line with the Carter administration's support for affirmative action without quotas. He said: "It's the first time the Supreme Court ever upheld affirmative action and it did so as strongly as possible."

Health Education and Welfare Secretary Joseph Califano took a similar line. However, some legal observers feel the ruling casts doubt on the power of his department to persuade schools, colleges and universities to adopt "voluntary" affirmative action programmes with numerical targets, where there was no past history of discrimination against minorities or women.

But where past discrimination has been proved, HEW should be able to continue to impose numerical goals for employment of staff and faculty and admission of students. The higher education desegregation plans which the federal Government agreed this year with six Southern states before segregation was once again all but ended.

Leaders of the National Higher Education Association and lobby groups maintained that most university affirmative action programmes



Griffin Bell: 'strong as possible'

were acceptable in the light of the Bakke ruling.

There has been a lot of semantic argument in the civil rights field over the difference between a "quota" for minority representation—which is generally thought to be bad—and a "numerical goal", which many supporters of affirmative action feel is necessary to measure a programme's success.

However, Justice Powell's key Bakke opinion says: "This semantic distinction is beside the point". He made clear that any programme that effectively reserves a specific number of places for members of certain races is unacceptable, whether it is called a target, goal or quota.

What is acceptable is a flexible procedure that takes applicants' racial and ethnic backgrounds into account, alongside their academic achievements, personalities and other factors.

"It is evident that the Davis special admission programme involved the use of an explicit racial classification never before countenanced by this court," he wrote. "The Davis programme is a rigidly discriminatory manner."

He also said that the Davis programme was "a rigidly discriminatory manner" and that the Davis programme was "a rigidly discriminatory manner".

Robert Mischel, Professor of psychology at UC Berkeley who has initiated several community outreach programmes, was less hopeful.

"The decision will tend to enable those who are not exponents of affirmative action to have a little more power. It will be easier now to discriminate against women and minorities."

Stanford law professor, Gerald Gunther, said: "The Bakke case is a symbol of the fate of admissions programmes nationally. The court has ruled against quotas or fixed numbers of minorities in the universities. Further litigation is pending concerning the fate of affirmative action on employment and housing."

Sau Jose State University president, John Bunzel, said: "The use of race as one of many different factors for admissions officers to consider is a difficult and delicate balance to strike."

"A had programme is one that sets aside a fixed number of places for the exclusive use of my group solely on the basis of race. A good programme is one that is race-sensitive, but will not involve race in a rigidly discriminatory manner."

California Governor, Jerry Brown, noted: "The court spoke in many voices, but it is obvious that mechanical formulas or quotas based on race are illegal—but that public institutions must take into account many factors and can make affirmative efforts to open opportunities for all the people of this state."

State superintendent of public instruction, Wilson Riles, said: "It is my intention as a Regent of UC in work with President Saxon and the legislature on ways to increase the number of under-represented minorities in the University of California."

Asked if the University of California would copy the Harvard system, President Saxon replied: "We don't need to emulate Harvard. We have done campuses and only one needs to be modified."

Charlotte Beyers

Grants urged for part-time university study

by Ngaio Creghier

Part-time university courses similar to those provided for full-time school-leavers should be "designated" to ensure that students get grants, according to a report by Birkbeck College on the financing of mature students.

The college has proposed a framework of a system of support appropriate for working students who attend universities to follow degree courses either in the evening or on day release. It is a second response to the DES discussion paper.

The college says that the disqualification provisions of local education authority award regulations are a disincentive to those seeking re-

current education, and provisions based on previous part-time or self-financed education are particularly discouraging.

Students admitted to part-time university courses with the same entrance qualifications and content as full-time courses should have all or part of their fees paid.

The college proposes that students who have never had any L.E.A. financial support for higher education should be entitled to a grant to cover fees, books, travelling expenses and vacation study/field course costs.

Those who successfully complete the first half of the course by part-time study should be entitled to complete the rest full-time, supported by a major county award.

Students who have not had any local authority financial support within the previous three years should be entitled to a grant to cover fees and vacation study/field course costs.

Those who successfully complete the first half of the course part-time should be entitled to up to three terms of full-time study supported by a major award.

Birkbeck also says that L.E.A.s should publicize and use their discretionary powers to give post-graduate grants for part-timers, and that completion of a substantial part of a research project by self-financed part-time study "should raise a strong claim for support towards the cost of the remainder of the course".

TUC expert calls for more training on the shop-floor

The separation of education from the lives of ordinary people was one of society's greatest failings. This was the message of Roy Jenkins, education secretary of the Trades Union Congress, to the first national conference of the Association for Adult and Continuing Education at St John's College, Oxford, last weekend.

Adult education would have to change its image and concern itself with the day-to-day practical problems that people faced in their jobs and in society, he said. This would mean developing education outside the traditional institutions and using methods such as work-based groups.

Outlining recommendations in a recently published TUC report, *Priorities in Continuing Education*, Mr Jenkins called for a comprehensive system of occupational training to be available to all adults. The Manpower Services Commission's TOPS courses were a major breakthrough but were only the beginning. It was a scandal that a significant number

of young people still had no systematic job induction, he said.

The present system by which block grants allowed local authorities to put adult education to sleep, he said, had gone forward to change. Both women and ethnic minorities had suffered from training disadvantages and far more must be done for these people in the post-school sector. Mr Jenkins also stressed the importance of post-educational leave for workers.

In reviewing the achievements of the association in its first six months, joint president Beryl Roskell said it had gone forward to change. With the merger of the Association for Adult Education, the National Federation of Continuing Education, the Association of Further Education, the Association of Colleges, the Association of Polytechnics and the Association of Residential Colleges to form the new body, AACB, members had given themselves a wonderful opportunity to adopt a new perspective.

Mature student 'denied grant'

A mature research student at the London School of Economics has claimed that he lost almost £2,000 in grants from the Social Science Research Council because of a technicality.

Mr Kenneth Matthews, of Winchester Hill, London, spent 13 years in the Foreign and Commonwealth Office, reaching the grade of senior executive officer (grade 5x) before leaving in 1974 at the age of 36 to complete a degree at the London School of Economics.

He graduated in 1976 and gained an SSRC quota studentship award of £1,500 to go on to do a PhD. His award consisted of a maintenance allowance for himself plus a dependents' allowance for his wife and two children.

Mr Matthews said that the regulations of the SSRC provided for two other allowances under certain conditions. He did not qualify for the first, an older students' allowance,

because it was not payable on currently with a dependent allowance, but he felt he was eligible for the second, a postgraduate experience allowance.

He bases his claim on his experience in the Civil Service which he believes was at least equivalent to what he would have gained if he had had a degree during the 13 years. Mr Matthews said he finally reached the grade of senior executive officer which is two grades above that of the executive officer—the normal graduate entry grade in the executive branch.

He said that the grant would have meant an additional £500 to his family per annum, a total of nearly £2,000 over three years' study.

A spokesman for the SSRC said: "The SSRC is aware of Mr Matthews' case. Within the regulations he has been dealt with fairly and properly."

Harvard: the right mixture

who loses out on the last available seat to another candidate receiving a "plus" on the basis of ethnic background will not have been foreclosed from all consideration for that seat simply because he was not the right colour or had the wrong surname.

It would mean only that his combined qualifications, which may have included similar non-objective factors, did not outweigh those of the other applicant."

The brief says Harvard selects only about 150 out of an entering class of 1,100 for their academic brilliance alone. The remainder are selected from a huge pool of qualified applicants to give a diverse study body.

"The belief that diversity adds an essential ingredient in the educational process has long been a

tenet of Harvard College admissions," the university told the court. "Fifty or 20 years ago, however, diversity meant students from California, New York and Massachusetts city dwellers and farm boys, violinists, painters and football players, politicians, stockbrokers, academics and politicians. The result was that very few ethnic or racial minorities attended Harvard College."

In more recent years Harvard College has expanded the concept of diversity to include students from disadvantaged economic, racial and ethnic groups. As a result, 8.1 per cent of the college's 1978-79 freshmen will be black, 5.7 per cent will be Asian-Americans and 4.6 per cent will be Hispanic.

In the case of racial minorities,

Harvard makes an effort to accept significant numbers of blacks: "10 or 20 black students could not begin to bring to their classmates and to each other the variety of points of view, backgrounds and experiences of blacks in the United States."

Their small numbers might also create a sense of isolation among the black students themselves and thus make it more difficult for them to develop and achieve their potential." But no minimum number is set.

Not everyone is as enraptured by the Harvard system as Justice Potter. The New York Times said it appeared to "lay the college open to charges of making arbitrary and capricious choices", while avoiding institutionalized reverse discrimination.

More importantly, it seems strange to choose America's top university as a model for 3,000 less fortunate colleges. Harvard can easily get away without an special minority admissions programme because its pool of talented applicants includes many of the country's most gifted black school leavers. Few other institutions are so lucky.

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Margherita Rendel and E. M. Ettorre (left) on grant discrimination and Stanley Johnson on intake

Battle of the sexes on university conditions



Money does not come easily

The grant regulations and the attitudes of men reflect two forms of discrimination against women. Both reflect systematic discrimination which may or may not operate systematically.

The Equal Opportunities Commission has drawn attention to the inconsistent and often inflexible rules for discretionary awards, that is their unsystematic quality. The commission also drew attention to the ways in which rules for discretionary awards tend to operate more harshly against women than against men; that is the systematic discrimination.

Systemic discrimination may be direct or indirect. It may operate against women or married women as in the case of grant regulations which treated married women differently from married men. It may be indirect, applying a rule equally to both sexes and married and unmarried alike, but a rule which is not justifiable and which operates more harshly against one sex than the other.

Lack of money keeps women out of higher education; the Open University found that 36 per cent of housewives, compared with 4 per cent of those employed in education and 25 per cent of manual workers, did not apply for this reason.

A pilot project, financed by the SSRC, on student records held at the University of London Institute of Education throws light on what has been happening to men and women students. A working party on the implications of the Sex Discrimination Act found that over an eight-year period women doing the Academic Diploma in Education had always been less likely than men to receive financial support, although the total number and the proportion of women had increased substantially. The implication was that there might be discrimination among bodies outside the Institute.

The results of the project show that the total number of students has increased by 25 per cent between 1971-72 and 1976-77. Women now constitute 45 per cent of the total student body. There are now more men than women doing the PGCE and equal numbers of men and women on the 16 Institute Diplomas for which enrolment varies from six to 51. On the more vocational courses, the enrolment of women has risen most markedly:

by 61 per cent for the Academic Diploma in Education which serves as a gateway for higher degrees, by 122 per cent for the MA and by 89 per cent for the PhD, but men constitute 55 per cent of the Academic Diploma and more than 60 per cent of the higher degree students.

Women tend to predominate in the small specialized courses compared with the sort of courses they are expected to be interested in: younger children, those needing bare such as the handicapped, and expressive subjects. Do these results reflect choice by students who are, after all, influenced by social assumptions about what is appropriate for women? It is a matter for women to decide whether to accept financial assistance for such courses?

We examined three years, 1971-72, 1973-74, and 1976-77, and divided courses into four main categories: (1) the PGCE, (2) the Academic Diploma, (3) higher degrees, and (4) the specialized diplomas.

The proportion of women on PGCE had decreased by 9 per cent and of those receiving financial support by 10 per cent, though financial support is mandatory. Men had increased by 9 per cent and their financial support dropped by only 2 per cent.

In the Academic Diploma both the number and proportion of women had increased, but the proportion who receive financial aid has decreased from 52 to 43 per cent. In this, the women have fared somewhat less badly than the men but at all times women have been worse off than men, although the gap has tended to close.

On the taught master's courses, both the number and proportion of women students and of women receiving financial aid has increased. Substantially more men received financial aid in 1973-74 than in the earlier or later years, but women have now caught up with the men.

Both the MPhil and the PhD are research degrees with more students registered for the MPhil, women consistently making up about a third of the students. Improvement in financial aid for men came between 1971-72 and 1973-74 but for the women not until 1976-77.

The number and proportion of women PhD students has increased. Both the number and proportion of women receiving financial assistance has increased substantially so that now the proportion of each sex receiving support is almost the same.

The specialized diplomas present a different pattern. Men and women are enrolled in virtually equal numbers, but the distribution is uneven. Educational administration and educational rehabilitation are overwhelmingly male. For educational administration, women are much less likely to obtain financial aid.

Secondary education is the next

most "male" diploma. The most female are child development, about children, the physically handicapped, English as a foreign language and handicapped children. When the numbers of students receiving financial aid are aggregated for the three years examined, women tend to be proportionately less likely to obtain financial aid for "male" than "female" courses.

This July 46 per cent of the women doing the diploma in educational administration received financial aid. The converse does not apply except for the diploma in the rule of language but there the figures are 71 per cent for the men and 87 per cent for the women.

Proportionately more women received financial support for institute diplomas than for any other courses although still proportionately fewer women than men received such support. This appears that women are less likely at this level than elsewhere, provided they stick to traditional "female" subjects.

Implications of these results are:

- Women are less likely than men to get financial support.
- The number and proportion of women doing higher degrees has increased over the past six years as have their chances of obtaining financial support; but women still remain substantially fewer.
- Women seem most likely to get

Numbers and percentages of WOMEN students on courses and receiving financial aid

Course	1971/72		
	No. students	%	No. receiving fin. aid
PGCE	216	58	215
Inst. Dips.	179	47.9	142
Ac. Dip.	85	17.4	44
MA	39	32.2	11
MSc	11	57.1	6
MPhil	55	13.7	11
PhD	29	25.9	6

Course	1973/74		
	No. students	%	No. receiving fin. aid
PGCE	204	57.1	200
Inst. Dips.	274	43.5	161
Ac. Dip.	88	38.9	10
MA	40	33.4	29
MSc	72	48.1	22
MPhil	62	24.4	15
PhD	33	26.2	10

Course	1976/77		
	No. students	%	No. receiving fin. aid
PGCE	213	49	191
Inst. Dips.	186	45.9	138
Ac. Dip.	138	44.5	57
MA	131	44.5	57
MSc	26	51	19
MPhil	72	34.8	41
PhD	45	30.1	33

The percentages in the second column show women as a percentage of all students on that course. The percentages in the fourth column show the women receiving financial aid as a percentage of all students on that course receiving financial aid. Students doing the PGCE now come under the mandatory regulations.

Ac Dip—Academic Diploma (now called Diploma in Education). Inst Dips—Institute Diplomas granted by the Institute rather than the university, mostly specialized and do not normally give access to higher degrees.

Threat to male dominance?

The increase in the demand for university places seems to be a trend. The Universities Council on Admissions Committee announced that applications for entry in Autumn, 1978, may be as much as 4 per cent up on 1977, but of all increases being from overseas applicants. Practically all the British universities, apart from the Open University, are facing the pattern is clear.

All this is in general line with forecasts based on population trends. Broadly, admission of total undergraduate numbers is expected to increase annually by about 1981-82. Further analysis of published information suggests the influence of factors other than the birth rates.

The recently published statistics of universities for 1975-76 show that total numbers of undergraduates in the United Kingdom have risen every year since 1965. Although the increase of degree students in England and Wales amounted to 55 per cent in 1976, the rise in five years has been 170 per cent under 3 per cent.

It was the increase in degree students which prevented the fall from being virtually total. In England and Wales, total numbers of women undergraduates doubled between 1967 and 1976, adding 12,000 to the total. In 1976, 19 per cent of men had a first degree in the 18 and then halted.

Proportions of women also rose without a break each year since 1967. From 10 women in every 100 men in 1967, they climbed to 25 in 1976. In 1976, 51 per cent of all students were women, about one-quarter of all undergraduates in 1966, women have been one-third.

In Scotland, the stagnation of male numbers seems to persist. In 1976, there were 10,000 male students, 10,000 under 18 and 10,000 over 18. In 1967, there were 10,000 male students, 10,000 under 18 and 10,000 over 18. The stagnation of male numbers in Scotland has also been the case for women students, though the growth has not been so pronounced. The average annual increase of 0.5 per cent for men and 0.5 per cent for women students represents an aggregate rise of 86 per cent in the 11 years when England and Wales showed 100 per cent.

It should be recorded that the 1976-77 figures for men students were already much higher in Scotland than in 1965: 46 women per 100 men as against 36 per 100 in England and Wales. By 1976, Scotland had 64 women for every 100 men, while England and Wales had 53. This is a significant increase in the proportion of women students, though the growth has not been so pronounced. The average annual increase of 0.5 per cent for men and 0.5 per cent for women students represents an aggregate rise of 86 per cent in the 11 years when England and Wales showed 100 per cent.

Some new factors must be at work to sustain the unrelenting increase of women's interest in university education. Employment opportunities and financial aid may be among these factors, but the dimension of outlets to which women's prospects are directed demands for university education.

The changed attitudes to marriage, especially marriage during study, and the new techniques of family planning may have had strong influences.

The statistics do seem to suggest that some factors have different effects on the numbers of men and women. Of all new entrants to universities in Great Britain in 1975, 48 per cent of women and 18 per cent of men were aged 18 or under. 23 per cent of women and 20 per cent of men were aged 20 or over. This suggests that women are more likely to enter university at a younger age than men. The admission for women students is a more serious situation is revealed by the numbers of undergraduates: 43 per cent of women and 38 per cent of men being aged 20 or under.

The author is a lecturer in management at Dundee College of Technology.

Academic social scientists do not always communicate about methodology with those who take the census (as in George Cruikshank's cartoon). Martin Bulmer who has had a foot in both camps offers some guidelines.

What are the conditions which will promote good policy research in Britain? Recent discussions of policy studies and the British Academy (see 7/78 March 24 and April 14 and 21) have paid rather scant attention to the methodology of "policy studies". To what are the problems of organizing and conducting social research with policy relevance? Does such research differ significantly from more conventional research conducted within the framework of particular academic disciplines such as sociology, political science or social anthropology?

Is British higher education (and particular disciplines within it) really geared up to respond to the demands for social research which are increasingly being made upon it? Recent growth in this country is still very modest by comparison with the United States, where the federal government currently spends in excess of \$500 million (£275 million) on social research annually, two-thirds on applied research. This is one measure of the sort of take-off which might occur in this country in the future. (For comparison, the SSRC budget in 1977/78 was £14 million, though this is by no means the only source of government expenditure on social research.)

If such expansion occurs, what kind of social research could be involved? What would carry it off? What are the obstacles to developing well-informed policy research grounded in academic social science? Clearly it is difficult to generalize. There is a wide range of institutions involved in policy research, there are different forms of organization, and different academic disciplines contribute in different ways. For instance, economics is an exception to a good deal of what follows, though the reasons for its exceptionalism are themselves of interest. Yet certain trends are clear.

In social science research in post-war Britain has already been applied, applied social research for policy has been even more so. There is now a sizeable professional community of full-time social research workers scattered over central and local government, universities, independent institutes and voluntary agencies, universities and independent research centres. A 1972 SSRC survey identified nearly 1,200 social science research organizations or departments, more than two-thirds of them outside higher education. Particularly large concentrations of staff are to be found in central government research divisions, commercial research firms and independent non-academic research organizations. Local authority social research units are growing rapidly.

The scale of contemporary social research is considerable. Not only are several thousand social scientists employed in it, but estimates suggest, for example, that four million social surveys are carried out in Britain every year. Moreover, the census of household next one is in 1981, a very large task. It is required to fill in the census schedule. But such "social research" is not homogeneous. Research differs in its sponsorship. Some is financed by commercial interests; some by government; and some by independent foundations or the research councils. It differs also in its content. Most social research is not policy research. A good deal of basic academic social science research, at the other extreme, does not have direct policy relevance. But in between there are several types of social research which have significant relevance and impact for policy. Not much has been heard about them in recent debates about the merits of policy studies. Perhaps in part this is because their academic status is somewhat tenuous.

Several different kinds of social survey research are cases in point. The public opinion polling arm of market research, in Britain almost entirely commercial, has a long and weak academic link (The LSLS Library does not even subscribe to the *Journal of the Market Research Society*). Surveys of voting intentions now reach a wide audience. More recently, similar techniques have come to be used to a greater range of social issues. There is a certain plausibility in the view that such research can be used to respond to the wishes of the electorate; and that on an increasing number of issues it provides (it is supposed) direct knowledge of these wishes.

Academic criticism of public opinion polling has been sharp on methodological grounds. Some techniques are criticized for over-simplification. Partly scepticism rests on the definition of "opinion". Not infrequently people's attitudes are elicited in a context of a vacuum. Critics argue that the posed (as preference about reshaping) need to be much more carefully elicited. A third objection to such research is political and constitutional, that it may create band-



Gulf between research and policy

wagon effects, usurp the roles of politicians and civil servants, and treat each individual's opinion as equal however inappropriate that may be. (When should one poll about aircraft noise: those who live near airports, or a cross-section of the population as a whole?)

Other types of surveys than polls probably have greater policy impact in the medium to long term. Large-scale surveys to collect objective data are carried out for policy-makers by the Social Survey Division of OPCS (the most reputable social survey organization in the country) and by independent research organizations such as SCPR. Such surveys vary in size from samples of around 1,000 upwards (the typical academic sociological survey is of a 100 or 200).

The biggest are the large-scale continuous surveys—the Family Expenditure Survey and the General Household Survey—which OPCS carries out for other government departments. They are an increasingly important source of data for policy; for instance, the 1976 census, both central and local government will come to rely even more on such surveys in making social policy. One of their own (such as the 1976 census) is a national dwelling and housing survey of 375,000 households recently undertaken).

Academic input to professional survey research is again very slight (though not entirely absent). There is in fact no large university centre for survey research such as exist in Oslo, Paris, Jerusalem, New York, Chicago and Michigan. (The SSRC Survey Archive at Essex is a repository of data collected by others.) The well-publicized demise of the SSRC survey unit in 1975 ended one attempt to develop such academic expertise. The apparent lack of SSRC policy following the closing of the survey unit is indicative of academic ambivalence about such institutes, as well as of the state of disciplines such as sociology and political science which could nurture them. Survey research centres mesh uneasily with the departmental structures of universities. Academic stand-offishness further widens the gulf between professional survey research and academic social scientists.

Distance from survey research is the census of population, carried out by OPCS and the Scottish General Register Office at 10-year intervals to gather data from the whole population on subjects suggested by government departments and local authorities, and approved by Parliament. Academic researchers are users of census data and are consulted in the planning of each census. But the conduct of censuses is in the hands of government statisticians.

Indeed, the work of the Government Statistical Service as a whole, of which the census is a small part, is another example of policy research (though the use of the word "research" is debatable) which is rather far removed from academic social science. Though active links are maintained with academic statisticians through the Royal Statistical Society, it is fair to say that contacts with academic social scientists (other than economists and demographers) are relatively slight.

In some disciplines, like sociology, trained scepticism about the usefulness of official statistics seems to be the norm. Conversely, official statisticians tend to avoid theory and theoretical questions (such as the definition of terms like "deprivation") which social scientists regard as important.

If some types of policy research suffer from poorly developed links between higher education and other research organizations, another type of policy research perhaps

lacks voice in the academics' midst. In all the talk about new initiatives, the existence of a good deal of applied social research in particular substantive areas such as industrial relations, medicine, organizational behaviour and criminology has gone largely unmentioned. New developments in policy studies will come in at least as much from the consultation of existing work in such areas as will from bright new institutions. Already such research has fed into the policy-making process through its contribution to the work of Royal Commissions; for example, the large amount of research on industrial relations carried out for the Donovan Commission. If so many have been speaking prize without realizing it, perhaps a certain amount of introspection is in order. Case studies of applied research could be very worthwhile. For instance, the history of the well-funded, long-standing and prestigious Medical Research Council would repay study.

Instead of this, of course, much more attention has been given to what some have dubbed "unprofessional social administration", namely action research. The principal examples of this have been the Educational Priority Areas (EPAs) and Community Development Projects (CDPs) programmes of the last decade. Both were planned to bring together research teams based in universities or polytechnics with action teams located in particular local authority areas. The rather enigmatic history of the CDP in particular has demonstrated how much British social scientists have to learn about the practicalities of conducting evaluative research. There is no yet to say that its enormous vogue on the other side of the Atlantic has caught on in Britain to any great extent, nor that its technical complexities are adequately understood.

However, there is still much vagueness about what is "action research". Instead of institutional blueprints, perhaps what is needed is a more theoretical analysis of some of the problems of applied research. The contribution of social science theory to policy research needs to be carefully examined. One should also recognize the incompatibilities there may be on the part of both the user and the producer of applied research. Ministers and senior civil servants, as political scientists L. J. Sharpe has pointed out, do not necessarily welcome social science. Very often they are over-supplied with information and do not require yet more to help them reach decisions. Nor do they have the time or the resources to devote to many discussions, since they may offer up too many hypotheses in political friction. Time constraints and the fact that academics tend to be oriented in concepts, policy-makers to specific problems, are further blocks. Often political administrators are unable to assess the value of what social scientists tell them, due to its technical content. Procedures for the review of social research proposals in central government are inferior to the peer review systems of the research councils.

On the other hand, academics are not always well suited to provide policy research for government. Their conclusions tend to be more cautious or hedgehogs than policy-makers like. Values intrude, not only in the sense that social scientists have values, but that these often conflict with the values of policy-makers. Many social scientists find it difficult to play the role of guest in the way that is expected of them. To the extent that the social sciences look critically beneath the surface of things, this is likely to make their relations with policy-makers uneasy.

There are thus powerful intellectual obstacles in the way of bringing social science to bear on policy-making, reinforced by the tenor of British political culture, the modes of recruitment of political and administrative elites, and the homogeneity of the political class. By comparison with the United States, the ruling echelons of British society are certainly much less receptive to the potential contribution of the social sciences to public affairs. Nevertheless, social research that is relevant to policy seems very likely to expand further in the foreseeable future.

For such developments to occur, however, higher education must be in a position to contribute (though this expansion could conceivably take place outside). This is not just a matter of willingness to mount research, but to educate the next generation of social researchers. There is disquieting evidence of failure to do so. Yesterday's social scientists' work (see 7/78, 5, April 30, 1976), found that even their sample of 2,500 social science graduates, had to develop particular research skills after leaving education. At least one third of their sample had to pick up statistical knowledge, computer knowledge or sampling techniques after starting employment. SSRC surveys in the early 1970s showed striking lack of familiarity with quantitative methods among graduate students in several disciplines, particularly sociology, political science, economics and social history and social anthropology.

Now are such deficiencies lacking in academic staff. Keith Hope of Nuffield College has put the matter most aptly, referring to what he calls the unquantitative culture of contemporary British social science, and suggesting that British social science leaves much to be desired from a technical point of view. "Sociologists by and large (the writer) claim they are practising a theoretical discipline in which empirical evidence is the arbiter of theory and opinion. One naturally expects, therefore, in surveying the hundreds of sociologists now at work in Britain, to find a significant proportion of them highly engaged in preoccupation with technical inquiries, panel studies, twin studies, controlled trials, double-blind experiments... and reporting the results in journals. In fact they are doing virtually none of these things. With a few exceptions they are lecturing, writing books about books, engaging in journalism, and talking about the theory they never quite finished... In consequence, as one would expect, their empirical work is lacking in expertise. In particular, they are incompetent to undertake investigations which require knowledge of quantitative techniques."

Such failures in graduate education and in the knowledge possessed by some academic staff are reinforced by the profound and continuing failure, referred to earlier, to institutionalize social research methodology in universities and polytechnics. The gulf between academic social science and many of those more actively engaged in social research for policy-makers seems to be widening rather than narrowing. This is due in no small measure to the failure to communicate about methodological problems, in which non-academic research centres often possess greater expertise than academics. Both sides are the losers. Even several million pounds from SSRC and the foundations will not necessarily rectify such a serious hiatus at the boundary between research and policy.

The author is lecturer in social administration at the London School of Economics and Political Science. He previously worked in the Office of Population Censuses and Surveys.

Overseas continued

Papua New Guinea
Department of EducationA new concept
in education

The Government of Papua New Guinea, in keeping with its strategy of Rural Development, has allocated funds (£600,000) to the Department of Education to pilot an innovation in secondary education to determine if the present "academic" system can be modified to make it more practical in orientation without a decline in real learning. It is hoped graduates will as a result have skills and attitudes more appropriate to village development. Known as the "Secondary Schools Community Extension Project" (SSCEP), the programme will involve five high schools over an initial four year period after which a decision will be made to terminate the project or extend it to more high schools.

The project will be managed, serviced and evaluated by a team of four Headquarters officers based in Port Moresby and working closely with the Department's Curriculum Unit. The National Coordinator has been appointed and we now urgently require:-

Three Experts in Education
1. Expert - Curriculum (Level 9)

This officer will work under the National Coordinator, leading the team of three experts in providing ideas, techniques, sample materials and direction to staff of project schools so that SSCEP aims, in terms of curriculum, management, selection and evaluation may be achieved. He will be responsible for assisting teachers with materials/guidelines enabling them to teach students through practical activities supporting rural development. He should be a graduate with postgraduate training in Curriculum Development, and have established competence and diverse experience in curriculum work at secondary level, preferably including experience in a developing country.

2. Expert - Education Measurement (Level 7)

This officer will work under the Curriculum Expert, as a member of the team developing measurement techniques which can be effectively used by typical secondary teachers in assessing the competence and ability of students in applying curriculum learnings to the solution of village problems. The techniques will go well beyond standardised paper and pencil tests. He should have postgraduate qualifications in Educational Measurement and be experienced in the development and evaluation of education innovation projects, preferably including experience in a developing country.

3. Expert - Educational Psychology (Level 7)

This officer will work under the Curriculum Expert as a member of the team, assisting with the development of valid and reliable methods of using teacher judgements to measure behavioural and value changes related to achievement of project objectives. He will also be involved in solving communications problems (staff, students, community). He will have postgraduate training in Educational Psychology, and established competence in school measurement applications of Educational Psychology. Developing country experience an advantage.

In each case the expert will be required to travel widely within Papua New Guinea visiting schools, convening workshops, and generally ensuring SSCEP aims are being implemented at all levels. This travel may include visits to remote outstations where the quality of accommodation cannot be guaranteed.

Pay Per Annum

Expressed in Kina, Current rate of exchange K1.33 = £1.00.

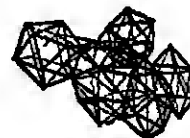
Level	Salary	Annual Bonus
7	13,111	3,359
9	15,765	3,905

Bonus is payable on satisfactory completion of Period of Engagement - two years (renewable in most instances).

General entitlements are very attractive and include an education allowance for dependent children attending secondary school overseas, return air passages with personal effects and baggage allowance, low cost married and single accommodation and generous leave conditions.

Please write or telephone for an application form and further details, quoting reference VIS/EDUC/19, to: The Recruitment Attaché, Papua New Guinea High Commission, 14 Waterloo Place, London SW1R 4AR. Tel: 01-930 0605/0607. Closing date for applications - 1st August, 1978.

Papua New Guinea

Western Australian
Institute of Technology

The Institute is a major tertiary institution providing degree and diploma studies at both undergraduate and graduate levels for over 11,000 students. Programs may be taken full-time, part-time or external study.

School of Applied Science

Head of Department

Mathematics and Computing Studies

The Department is one of five Departments in the School of Applied Science. At present programs offered include Bachelor of Applied Science, Graduate Diploma in Mathematics and Graduate Diploma in Computing. It has a full-time academic staff of 16, and some 300 students are enrolled.

The courses are essentially of an applied nature. In addition to a core of basic mathematics, students may elect to specialise in applied statistics, computing, numerical analysis or operations research.

The Department is also heavily involved in service teaching for other departments.

The Head of Department will provide effective leadership, both educational and professional, co-ordinate academic and administrative operations and further the Department's involvement in industrial applications.

Qualifications: Post Graduate qualifications and professional or industrial experience and/or tertiary teaching experience.

Salary: £16,500 (Salary quoted at June 16 rate of exchange £0.6177 = \$1.00).

Tenure: Appointment may be either permanent, or on contract for a period up to five years.

Conditions include: (Permanent) Annual, Long Service and Study Leave, Superannuation (similar to FSSU). Fares for family plus assistance for removal expenses and temporary accommodation. (Contract) Return fares for family plus some assistance for removal expenses.

Applications: Detailed applications including a curriculum vitae and the names and addresses of three referees should be submitted not later than 4th August, 1978, to the Migration Officer, Western Australian House, 115 Strand, London WC2R 0AJ, England. Enclosure containing further information may be obtained from this above address.

When applying please quote reference number 088 HEC.

OVERSEAS
DEVELOPMENT
KNOW-HOW: vital to developing countries

Expert in Agricultural Engineering

Thailand

To teach at postgraduate level and to undertake and supervise research. Applicants should have degree preferably a diploma in agricultural engineering or related subject with teaching industrial and consultancy experience. Should have experience in at least 1st agricultural physics with specialisation in soil cultivation. Should have an understanding of the agricultural needs of developing countries in Asia. Academic and practical experience in that region an advantage.

Appointment two years. Salary according to qualifications and experience plus to-be-outside allowance. Superannuation rights may be negotiated (Ref. 317G).

The post is wholly financed by the British Government under Britain's programme of aid to the developing countries. In addition to basic salary and overseas allowances other benefits normally include paid leave, free family passage, children's education allowances and better travel, free accommodation and multi-annual. Applicants should be citizens of the United Kingdom.

For full details and application form please apply, quoting reference listing post concerned, and giving details of age, qualifications and experience to:-



Appointments Officer,
MINISTRY OF OVERSEAS DEVELOPMENT,
Room 301, Eland House,
Stag Place, London SW1E 5DH.

HELPING NATIONS HELP THEMSELVES

Overseas continued

OVERSEAS
TEACHING POSTSDIRECTOR OF STUDIES
(Sri Lanka)

English Teachers' College, Ministry of Education. Director of Studies to set up courses for improving the English of practicing teachers.

Qualifications: Degree plus one year postgraduate qualification in TEFL/Applied Linguistics and five years' experience of English language teaching to overseas adults.

Experience in teacher training and in the preparation of spoken English courses is desirable, and an interest in knowledge of Drama and Music.

Salary: £5,881-£7,707, plus 10% Inducement allowance.

Benefits: Overseas and children's allowances; accommodation allowance. Two-year KET contract. 78 PT 8

LECTURER IN ELECTRICAL ENGINEERING

(Colombia)

University of the Andes, Bogotá. To lecture to degree-level students, supervise research projects, assist with the design of equipment for rural electrification.

Qualifications: BSc and experience of electrical machines essential, also knowledge of or willingness to learn Spanish. Higher degree in Electrical Engineering and experience in electrical machine design desirable.

Salary: £5,081-£7,707 p.a.

Benefits: Free accommodation; medical scheme; overseas allowances; employer's portion of UK superannuation. Two-year contract, renewable. 78 PU 88

HEAD OF TEACHER TRAINING
DEPARTMENT

(Brazil)

Sociedade Brasileira de Cultura Inglesa. Fox Argui/Suplombur, 1978.

Qualifications: Postgraduate degree/diploma in Applied Linguistics or TEFL; five years' experience of teacher training and teaching in an overseas context required.

Salary: Cr\$20,000-Cr\$24,000 per month (current rate of exchange Cr\$27 = £1).

Benefits: annual bonus, currently £800; installation grant £110; employer's portion of superannuation contribution; medical scheme. Two-year contract, renewable. 78 PO 13

LECTURERS IN INFANT EDUCATION
(Singapore)

Institute of Education, School of Professional Studies. Five Lecturers required. Candidates, women only, should have specialist training and three years' experience of kindergarten/infant school teaching.

An MA/MEd in a relevant subject is essential for Grade B salary scale. Experience in a multi-ethnic school is particularly valuable.

Salary: Lecturer D \$1,705-2,420 pm Lecturer C \$1,055-2,160 pm (current rate of exchange \$4.00 = £1).

Benefits: Two or three-year contract; housing and displacement allowances; gratuity on completion of contract. 78 PT 7-11

Return fares are paid. Local contracts are guaranteed by the British Council.

Please write briefly stating qualifications and length of appropriate experience, quoting reference number and UIC of post, for further details and application form to the British Council (Appointments), 65 Davies Street, London W1V 2AA.

THE BRITISH
COUNCIL

AUSTRALIA

Senior Lecturer
in Sociology

The General Studies Faculty offers both a degree and diploma in social science, and sociology is a major within the degree course.

DUTIES: To work as part of a group teaching sociology. To contribute to interdisciplinary subject areas and to the external studies program. To provide leadership and general administrative support within the faculty.

QUALIFICATIONS: Applicants must have a sound grasp of sociology and substantial teaching experience at tertiary level. The applicant should provide evidence of competence in several of the following areas:

Critical theory, contemporary theory, social change, organisational theory, social stratification and methods in sociology.

APPLICATIONS CLOSE: Monday 14 August 1978. Typewritten applications stating qualifications, experience and giving sufficient information to indicate suitability for interview should be sent to the Staffing Officer, Box 423, Werribee, Victoria, 3280, Australia.

Appointment may be to the Council's Overseas Career Service or on contract terms to a post in Britain or overseas. Self appointed to the career service will spend work overseas for much of their career, but their initial period may be in London. Recently, most successful candidates for the Overseas Career Service have been between 25 and 32 years of age.

The initial salary is in the region of £5,000, and terms and conditions of service are in line with those of comparable organisations in the public sector: free accommodation and overseas allowances, including children's education allowances, are provided while overseas.

For further details and application form, please write or telephone quoting E/1 to Staff Recruitment Department, The British Council, 65 Davies Street, London W1V 2AA, telephone 01-492 8011, ext 3041.

LECTURER IN
CHIROPODY

Applications are invited for Lecturer in Chiropody within the School of Chiropody. Duties will include: (1) teaching postgraduate students, (2) participating in the development of postgraduate courses and (3) assisting the Head of School in all aspects of the administration and development of the School.

Applicants should have appropriate professional qualifications and a minimum of five years' experience in the field of chiropody. Successful candidates will be offered an opportunity to become involved in the development of the School and the further development of the profession in Victoria.

Salary: Lecturer II \$414,885 to \$417,134, Lecturer III \$417,134 to \$419,384. Assistance will be given towards the cost of living including full curriculum vitae together with a list of references. Successful candidates should be addressed to the Director of Staffing, Lincoln Institute, 225 Garsington Road, Oxford OX4 2DQ.

Send resume and names of two referees to: The Director of Staffing, Lincoln Institute, 225 Garsington Road, Oxford OX4 2DQ. Tel: 01865 271161, 1st/2nd floor.

The British Council

ENGINEERING AND
TECHNOLOGY

The British Council, which has a responsibility for Britain's cultural and educational relations overseas, has a number of vacancies for candidates with qualifications and experience in engineering and technology.

The Council's work in many countries includes scientific liaison, the development of contacts with academic and research institutions, in Britain, the Council's engineering and technology staff provide the necessary support for the work overseas. They advise on the planning of overseas courses on courses in Britain, and are concerned with the design and implementation of development projects in their specialist subject areas.

We should like to hear from you if you are a graduate in engineering or technology, possess an equivalent professional qualification, and have several years' postgraduate experience in research, industry, education or administration. Proven organisational ability and the ability to work harmoniously with others are essential.

Appointment may be to the Council's Overseas Career Service or on contract terms to a post in Britain or overseas. Self appointed to the career service will spend work overseas for much of their career, but their initial period may be in London. Recently, most successful candidates for the Overseas Career Service have been between 25 and 32 years of age.

The initial salary is in the region of £5,000, and terms and conditions of service are in line with those of comparable organisations in the public sector: free accommodation and overseas allowances, including children's education allowances, are provided while overseas.

For further details and application form, please write or telephone quoting E/1 to Staff Recruitment Department, The British Council, 65 Davies Street, London W1V 2AA, telephone 01-492 8011, ext 3041.

IRAN

FACULTY POSITION
ELECTRICAL ENGINEERING

position of the Assistant Associate Professor level in the Faculty of Electrical Engineering, University of Tehran, Tehran, Iran. The post is a full-time position and involves teaching and research duties.

Qualifications: The postholder should have a PhD or equivalent and significant post-graduate or post-doctoral research experience. Salary based on individual basis.

Send resume and names of two referees to: The Director of Staffing, Lincoln Institute, 225 Garsington Road, Oxford OX4 2DQ. Tel: 01865 271161, 1st/2nd floor.

AUSTRALIAN MARITIME COLLEGE

Senior
Academic Staff

The AUSTRALIAN MARITIME COLLEGE is presently being established at Launceston, Tasmania as an autonomous college of advanced education to provide maritime education and professional training courses for the maritime, fishing and associated industries. As the national college, it will be the only one of its kind in Australia. It is envisaged that the college will co-operate with the newly College of Advanced Education and the Technical College in the provision of courses and the sharing of facilities. Launceston, with a population of 65,000, is the major centre for the northern part of Tasmania. It has direct sea and air links with the mainland, offers a wide range of facilities and amenities and has a pleasant, temperate, climate.

Applicants will be expected to take up duty as early as possible in 1978 in order that they can contribute effectively to the planning and initial development of the college.

Head: Department of Operational Safety and
Executive Training

To establish and lead the development of practical seamanship training at the College's seamanship centre. The training course envisaged includes induction training for deck, engineer and radio officer entrants and practical training in seamanship, cargo work and life-saving appliances. The occupant of this position will also be responsible for the operation of the navigation and seamanship training vessel and the training plant - and for organisation of the training programmes offered, in conjunction with other relevant Departments.

Whilst good academic qualifications would be an advantage this is less important than relevant experience of organising this type of training - supervised on extensive ongoing inspection and professional qualifications. The occupant of this position will, amongst other things, be capable of leading command of the training vessel from time to time.

Head: Department of Ship Operations

To establish and lead the development of short courses for senior officers in positions afloat and ashore within the shipping and allied industries. Courses will cover areas such as management, control techniques, work study, personnel relations, shipboard emergency planning, port emergency planning, maritime law, marine insurance and liability.

It is anticipated that the part of courses dealing with general management and accounting etc. will be serviced by the adjacent College of Advanced Education. The occupant of this position should therefore have qualifications and experience appropriate to the applied or marine aspects of the work. In particular a sound knowledge of merchant ship operations is necessary.

The SALARY levels for the above positions have still to be determined but depending upon the degree of responsibility involved in each position, and the qualifications and experience of the successful applicant it is anticipated that they will lie within the ranges £27,001 - 24,568, (at present exchange rate, £1 = \$4.02).

CONDITIONS will be commensurate with those generally available in Australian colleges of advanced education and universities. Assistance may be available with housing. Fares for the applicant and family, reasonable removal costs, and a settling-in allowance will be paid.

ENQUIRIES are invited from suitably qualified and experienced persons. Full particulars including qualifications and professional status, experience, present position, the names and addresses of two referees and a list of dates upon which the applicant could take up duty if selected - should be supplied to the Secretary, Interim Council, Australian Maritime College, 450 St. Kilda Road, M11 RHIRE, Vic. AUSTRALIA 3004 by 4th August 1978.

THE BRITISH
COUNCIL

The British Council

LECTURER IN
ENGLISHTHE PEOPLE'S
REPUBLIC OF CHINA

The British Council, which has a responsibility for Britain's educational and cultural relations overseas, requires a Lecturer in English to undertake a one-year contract appointment in the People's Republic of China.

In association with a Senior Council colleague, the applicant will be required to lecture on various aspects of English Language studies to Professors and Associate Professors of English from Chinese universities and institutions of higher education. He or she will also be required to participate in weekly symposia which will be open to a wider audience of teachers interested in English language learning. The ability to lecture on linguistic theory or some aspect of Old or Modern English literature will be an advantage.

The teaching year will be divided into two 'terms' of approximately five and a half months, separated by a short break. The first 'term' will be spent in Peking, the other in Shanghai. The British lecturer will be accommodated in hotels for the duration of their stay in China and, for this reason, only candidates who are single, or who are willing to travel unaccompanied, will be considered.

Candidates should possess a higher degree at Masters or at PhD level. A postgraduate qualification in the Teaching of English as a Foreign Language or in Applied Linguistics, and at least two years' experience of ELF are essential. Teaching experience in East or South East Asia is desirable.

The salary will be in the region of \$6,400 to 27,400 depending on qualifications and experience. Free accommodation and meals, return passages, and Dependent Allowance will be provided.

For further details and application form please write or telephone quoting C/2 to Staff Recruitment Department, The British Council, 65 Davies Street, London W1V 2AA, or telephone 01-492 8011, extension 3041.

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